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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/751,975	12/29/2000	Charles Elkins	V199-1933	9062
7590	07/24/2006		EXAMINER [REDACTED]	PRONE, JASON D
Thomas E. Donohue Artz & Artz, PC Suite 250 28333 Telegraph Road Southfield, MI 48034			ART UNIT [REDACTED]	PAPER NUMBER 3724
DATE MAILED: 07/24/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/751,975	ELKINS ET AL.	
	Examiner	Art Unit	
	Jason Prone	3724	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 15 May 2006.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 18,20 and 21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 18,20 and 21 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____. |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____. | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____. |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 18, 20, and 21 are rejected under 35 U.S.C. 102(b) as being anticipated by Boyd (3,562,058).

In regards to claim 18, Boyd discloses the same invention including a method of separating (Title) individual circuit boards from a multiple array (Column 1 lines 28-38) with pre-scored planes (Column 2 lines 70-72), aligning one of the pre-scored planes with a splitting element (breaking pad 32), affixing a removable shield element to an individual circuit board portion (3 and 4), loading the removable shield element to reduce board flex (10), inducing torque on the multiple board array such that the multiple board array is forced onto the splitting element and breaks along the pre-scored planes (Column 3 lines 3-15).

In regards to claim 20, Boyd discloses the same invention including an apparatus for separating (Title) individual circuit boards from a multiple array (Column 1 lines 28-38) with pre-scored planes (Column 2 lines 70-72) and a plurality of electrical components (Column 1 lines 28-38) comprising at least one splitting element positioned along one of the pre-scored planes (32), at least one torque inducing element using surface loading to mechanically force the array onto the at least one splitting element

and thereby breaking the array along the pre-scored plane (10), the at least one torque inducing element forcing the multiple array without loading the electrical components (Fig. 2), the torque inducing element applies the surface loading to the array by way of a shield element attached to the individual circuit board such the components remain undamaged (Fig. 2), and a transport element for automatically aligning one of the pre-scored planes with the at least one splitting element (21).

In regards to claim 21, Boyd discloses the same invention including a method of separating (Title) individual circuit boards from a multiple array (Column 1 lines 28-38) with pre-scored planes (Column 2 lines 70-72), aligning one of the pre-scored planes with a splitting element (breaking pad 32), inducing torque on the array such that the array is forced onto the splitting element and breaks along the pre-scored plane (Column 3 lines 3-15), the inducing torque on the array includes transferring load from a torque inducing element through a shield element into a portion of the array (3 and 4).

Response to Arguments

3. Applicant's arguments with respect to claims 18, 20, and 21 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Prone whose telephone number is (571) 272-4513. The examiner can normally be reached on 7:00-4:30, Mon - (every other) Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Boyer D. Ashley can be reached on (571) 272-4502. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

July 18, 2006



Patent Examiner
Jason Prone
Art Unit 3724
T.C. 3700